

In the Claims:

1-15. (Previously canceled)

Q1 16. (Currently amended) An isolated chimpanzee erythropoietin (CHEPO) polypeptide comprising ~~an amino acid sequence comprising at least about 80% sequence identity to a sequence selected from the group consisting of:~~ (a) the sequence of amino acid residues from about 1 or about 28 to about 193 of Figure 2 (SEQ ID NO: 2); (b) the sequence of SEQ ID NO: 18; and (c) the sequence of SEQ ID NO: 34.

17.-21. (Currently canceled)

Q2 22. (Currently amended) A chimeric molecule comprising a CHEPO polypeptide of Claim 16 fused to a heterologous amino acid sequence.

23. (Original) The chimeric molecule of Claim 22, wherein said heterologous amino acid sequence is an epitope tag sequence.

24. (Original) The chimeric molecule of Claim 22, wherein said heterologous amino acid sequence is a Fc region of an immunoglobulin.

25-29. (Previously canceled)

30. A composition of matter comprising (a) a chimpanzee erythropoietin (CHEPO) polypeptide comprising an amino acid sequence selected from the group consisting of (i) the sequence of amino acid residues 1 or 18 to 193 of Figure 2 (SEQ ID NO: 2 (ii) the sequence of SEQ ID NO: 18; and (iii) the sequence of SEQ ID NO: 34), (b) an agonist to a CHEPO polypeptide of (a), (c) an antagonist to a CHEPO polypeptide of (a), or (d) an anti-CHEPO antibody specifically binding a polypeptide of (a), in admixture with a pharmaceutically acceptable carrier.

31.-33. (Previously canceled)

34.-39. (Currently canceled)

Q3 40. (Currently amended) The chimeric molecule of ~~claim 39~~ claim 24 wherein said immunoglobulin is an IgG.

41. (Currently amended) The chimeric molecule of ~~claim~~ Claim 40 wherein said IgG is IgG1.

42.-44. (Previously canceled)